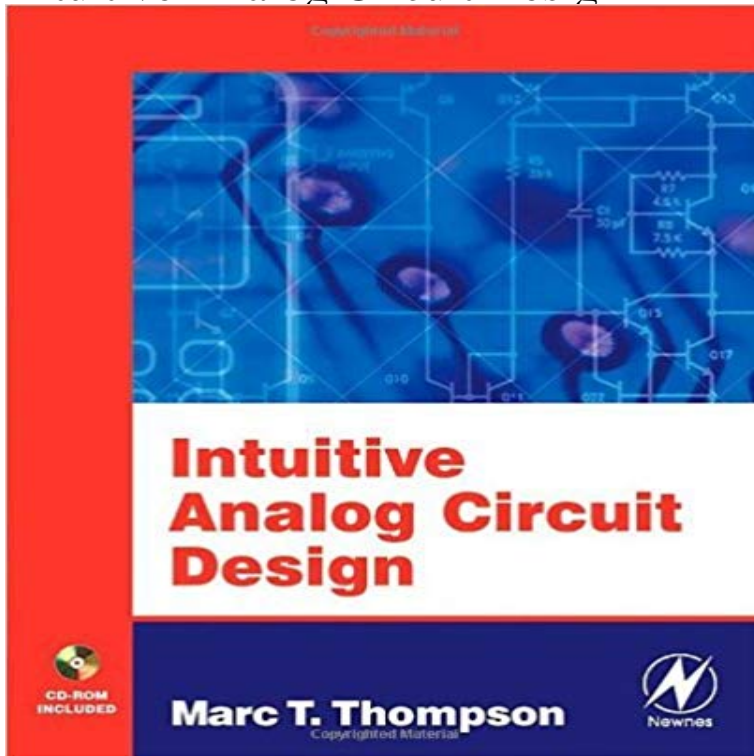


Intuitive Analog Circuit Design



This book reflects Marc Thompson's twenty years of experience designing and teaching analog circuit design. He describes intuitive and back-of-the-envelope techniques for designing and analyzing analog circuits, including transistor amplifiers (CMOS and bipolar), transistor switching, thermal circuit design, magnetic circuit design, control systems, and the like. The application of some simple rules-of-thumb and design techniques is the first step in developing an intuitive understanding of the behavior of complex electrical systems. This book outlines some ways of thinking about analog circuits and systems that hopefully develops such circuit intuition and a feel for what a good, working analog circuit design should be. *Introduces analog circuit design with a minimum of mathematics. *Gives readers an intuitive feel for analog circuit operation and rules-of-thumb for their design. *Uses numerous analogies from digital design to help readers whose main background is in digital make the transition to analog design. *Accompanying CD-ROM contains PowerPoint presentations for each chapter and MATLAB files used in the text.

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